

FIG. 1

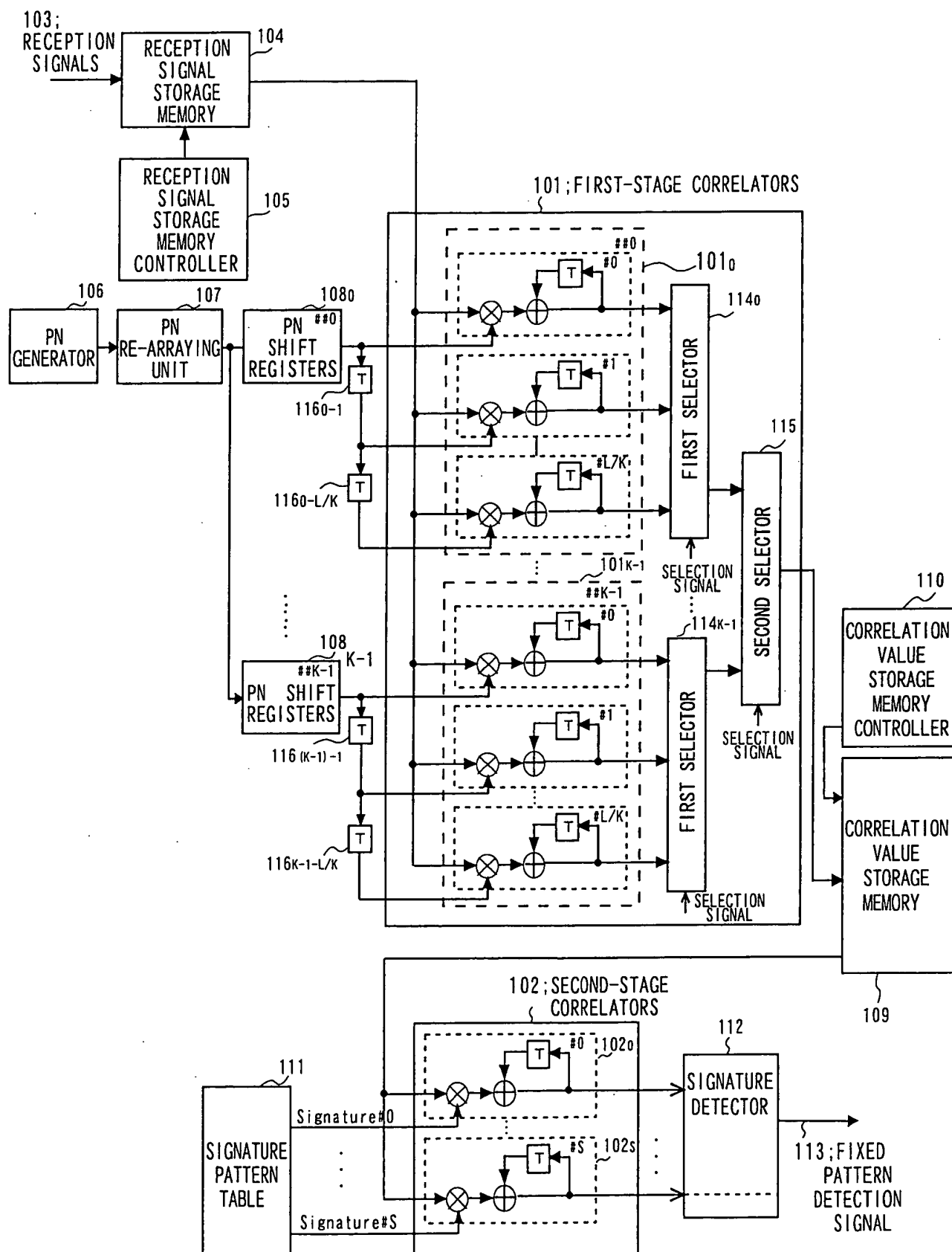


FIG . 2

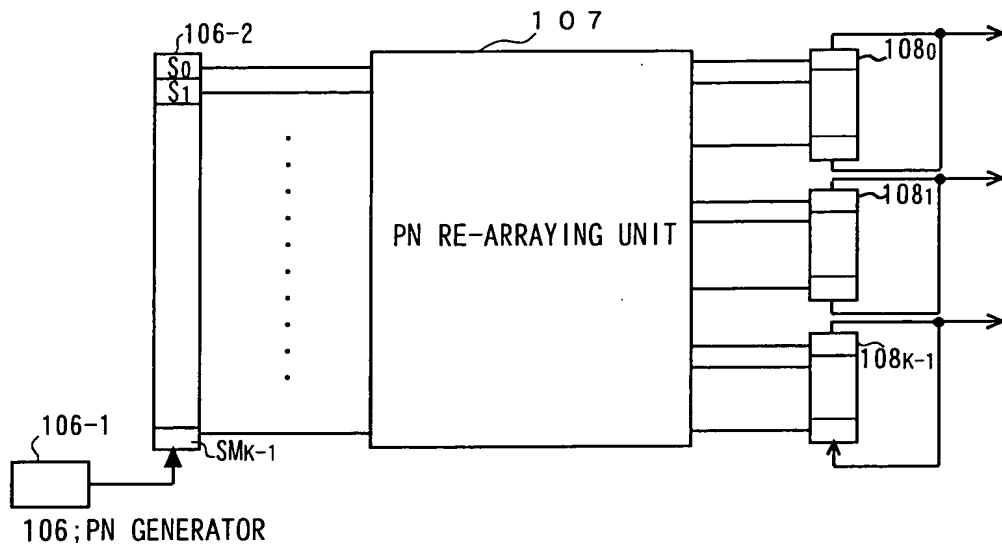


FIG . 3

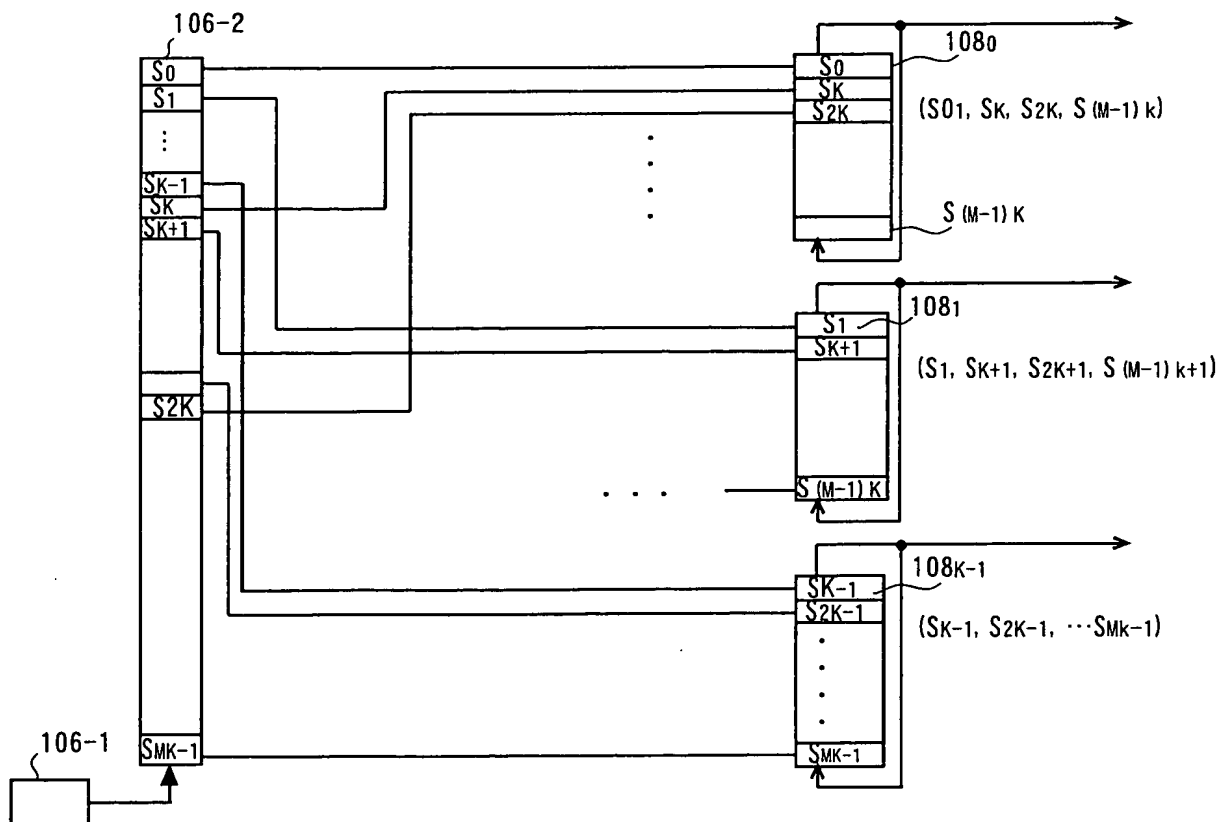


FIG. 4

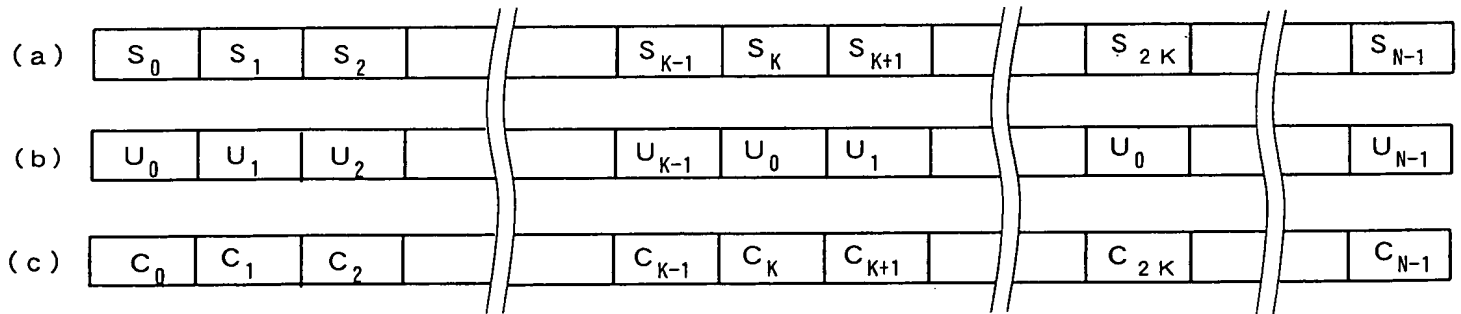


FIG. 5

CORRELATOR BLOCK										
# # 0	0	1	2	L/K	...	M-1	M	M+1	...	M+L/K-1
#0	C_0S_0	C_KS_K	$C_{2K}S_{2K}$	.....	$C_{(M-1)K}S_{(M-1)K}$				$C_{L+(M-1)K}S_{(M-1)K}$	
#1		C_KS_0	$C_{2K}S_K$		$C_{(M-1)K}S_{(M-2)K}$	$C_{MK}S_{(M-1)K}$				
#2			$C_{2K}S_0$		$C_{(M-1)K}S_{(M-3)K}$	$C_{MK}S_{(M-2)K}$	$C_{(M+1)K}S_{(M-1)K}$			
#L/K				C_LS_0						
# # 1	C_0S_1	C_KS_{K+1}	$C_{2K}S_{2K+1}$	.....	$C_{(M-1)K}S_{(M-1)K+1}$					
#1		C_KS_1	$C_{2K}S_{K+1}$		$C_{MK}S_{(M-1)K+1}$					
#L/K				C_LS_1						
# # 2	C_0S_2	C_KS_{K+2}	$C_{2K}S_{2K+2}$		$C_{(M-1)K}S_{(M-1)K+2}$					
#1		C_KS_2	$C_{2K}S_{K+2}$							
#L/K				C_LS_2						
# # K-1	C_0S_{K-1}	C_KS_{2K-1}	$C_{2K}S_{3K-1}$		$C_{(M-1)K}S_{MK-1}$					
#1		C_KS_{K-1}	$C_{2K}S_{2K-1}$		$C_{MK}S_{MK-1}$					
#L/K				C_LS_{K-1}						
CORRELATOR BLOCK										

FIG. 6

# # 0 CORRELATOR BLOCK	#0	0	1	2	L/K	...	M-1	M	M+1	...	M+L/K-1
# # 1 CORRELATOR BLOCK	#0	$C_1 S_0$	$C_K S_K$	$C_{2K+1} S_{2K}$	...	$C_{(M-1)K+1} S_{(M-1)K}$					
	#1		$C_K S_0$	$C_{2K+1} S_K$		$C_{(M-1)K+1} S_{(M-2)K}$	$C_{MK+1} S_{(M-1)K}$				
	#2			$C_{2K+1} S_0$		$C_{(M-1)K+1} S_{(M-3)K}$	$C_{MK+1} S_{(M-2)K}$	$C_{(M+1)K+1} S_{(M-1)K}$			
# # 2 CORRELATOR BLOCK	#L/K										
	#0	$C_1 S_1$	$C_K S_{K+1}$	$C_{2K+1} S_{2K+1}$	$C_{L+1} S_0$	$C_{(M-1)K+1} S_{(M-1)K+1}$					$C_{L+(M-1)K+1} S_{(M-1)K}$
	#1		$C_K S_1$	$C_{2K+1} S_{K+1}$	...	$C_{MK+1} S_{(M-1)K+1}$					
# # K-1 CORRELATOR BLOCK	#L/K										
	#0	$C_1 S_2$	$C_K S_{K+2}$	$C_{2K+1} S_{2K+2}$	$C_{L+1} S_1$	$C_{(M-1)K+1} S_{(M-1)K+2}$					$C_{L+(M-1)K+1} S_{(M-1)K+1}$
	#1		$C_K S_2$	$C_{2K+1} S_{K+2}$							
# # K CORRELATOR BLOCK	#L/K										
	#0	$C_1 S_{K-1}$	$C_K S_{2K-1}$	$C_{2K+1} S_{2K-1}$	$C_{L+1} S_2$	$C_{(M-1)K+1} S_{MK-1}$					$C_{L+(M-1)K+1} S_{(M-1)K+2}$
	#1		$C_K S_{K-1}$	$C_{2K+1} S_{2K-1}$			$C_{MK+1} S_{MK-1}$				
# # K+1 CORRELATOR BLOCK	#L/K										
	#0	$C_1 S_{K+1}$	$C_K S_{2K+1}$	$C_{2K+1} S_{2K+1}$	$C_{L+1} S_{K-1}$	$C_{(M-1)K+1} S_{MK+1}$					$C_{L+(M-1)K+1} S_{(M-1)K+1}$
	#1		$C_K S_{K+1}$	$C_{2K+1} S_{2K+1}$			$C_{MK+1} S_{MK+1}$				

FIG. 7

		1	2	....	K
CORRELATOR BLOCK # #0	CORRELATOR #0	$D_0 U_0$	$D_1 U_0$	....	$D_{K-1} U_0$
	CORRELATOR #1	$D_K U_0$	$D_{K+1} U_0$	....	$D_{2K-1} U_0$
	CORRELATOR #2	$D_{2K} U_0$	$D_{2K+1} U_0$	....	$D_{3K-1} U_0$
	:	:	:	:
	CORRELATOR #L/K	$D_L U_0$	$D_{L+1} U_0$	....	$D_{L+K-1} U_0$
CORRELATOR BLOCK # #1	CORRELATOR #0	$D_{-1} U_1$	$D_0 U_1$	....	$D_{K-2} U_1$
	CORRELATOR #1	$D_{K-1} U_1$	$D_K U_1$	$D_{2K-2} U_1$
	CORRELATOR #2	$D_{2K-1} U_1$	$D_{2K} U_1$	$D_{3K-2} U_1$
	:	:	:	:
	CORRELATOR #L/K	$D_{L-1} U_1$	$D_L U_1$	$D_{L+K-2} U_1$
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CORRELATOR BLOCK # #K-1	CORRELATOR #0	$D_{-(K-1)} U_{K-1}$	$D_{-K+2} U_{K-1}$	$D_0 U_{K-1}$
	CORRELATOR #1	$D_1 U_{K-1}$	$D_2 U_{K-1}$	$D_K U_{K-1}$
	CORRELATOR #2	$D_{K+1} U_{K-1}$	$D_{K+2} U_{K-1}$	$D_{2K} U_{K-1}$
	:	:	:	:
	CORRELATOR #L/K	$D_{L-(K-1)} U_{K-1}$	$D_{L-K+2} U_{K-1}$	$D_L U_{K-1}$

FIG . 8(a)

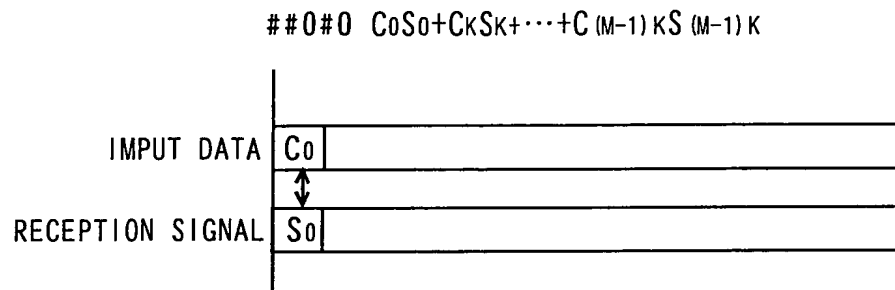
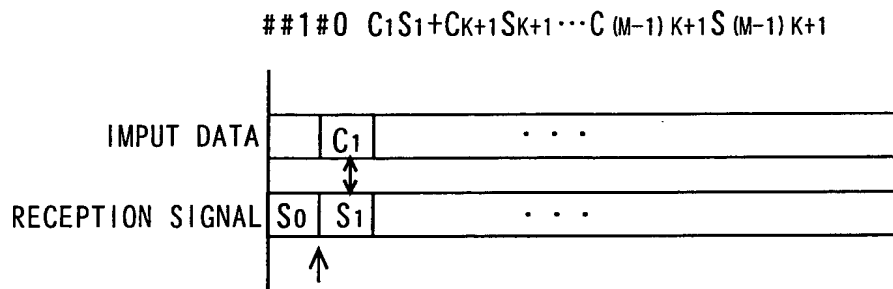


FIG . 8(b)



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FIG. 9

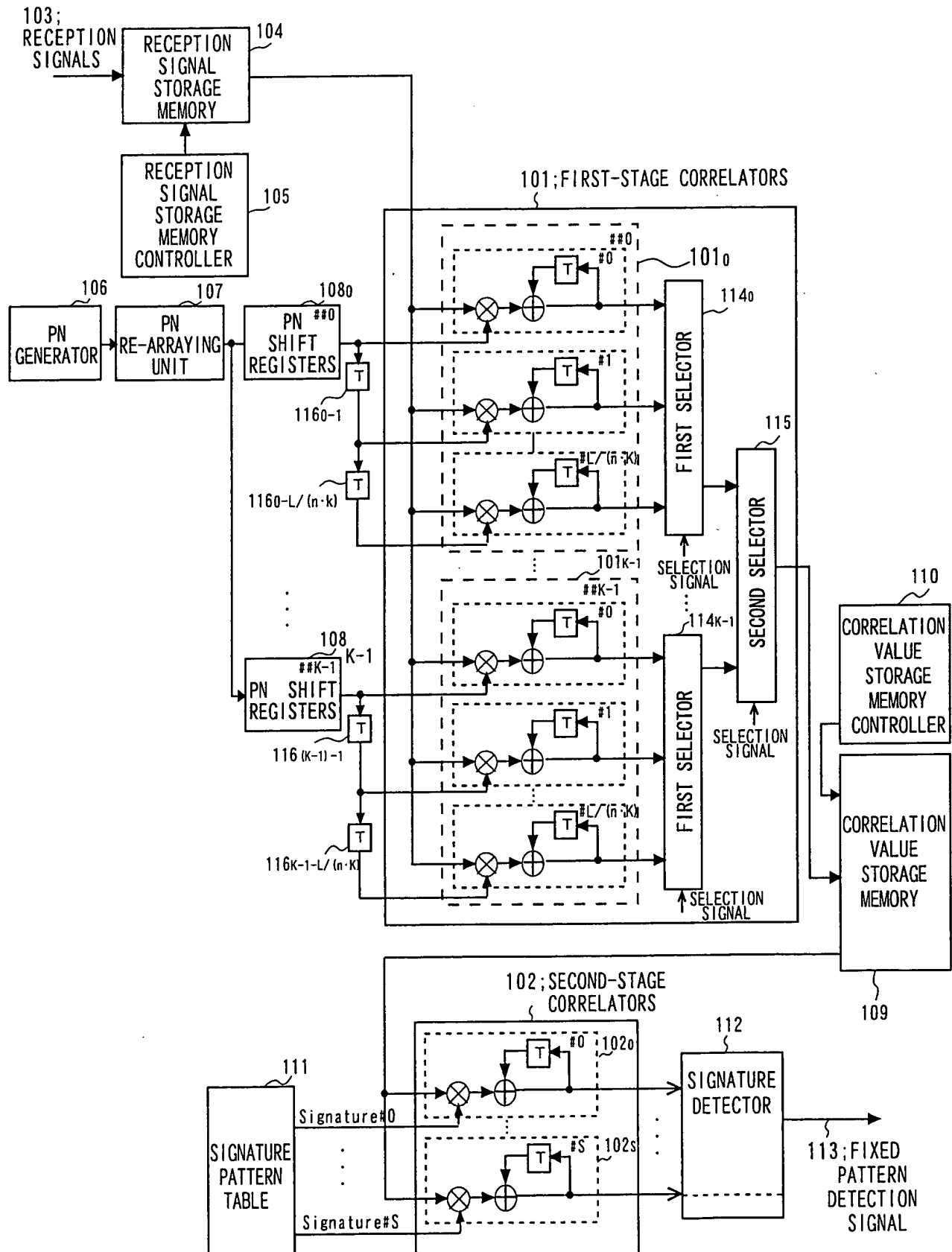


FIG. 10

	0	1	2	$L/(n \cdot k)$	M-1	M	M+1	...	$M+L/(n \cdot K)-1$
# # 0 CORRELATOR BLOCK	#0	$C_K S_K$	$C_{2K} S_{2K}$	$C_{(M-1)K} S_{(M-1)K}$			\parallel	
	#1	$C_K S_0$	$C_{2K} S_K$	\parallel	$C_{(M-1)K} S_{(M-2)K}$	$C_{MK} S_{(M-1)K}$		\parallel	
	#2		$C_{2K} S_0$	\parallel	$C_{(M-1)K} S_{(M-3)K}$	$C_{MK} S_{(M-2)K}$	$C_{(M+1)K} S_{(M-1)K}$	\parallel	
# # 1 CORRELATOR BLOCK	#L/(n \cdot K)			\parallel				\parallel	
				$C_{L/n} S_0$				\parallel	$C_{L/n+(M-1)K} S_{(M-1)K}$
	#0	$C_K S_1$	$C_{2K} S_{2K+1}$	.....	$C_{(M-1)K} S_{(M-1)K+1}$			\parallel	
# # 2 CORRELATOR BLOCK	#1	$C_K S_1$	$C_{2K} S_{K+1}$	\parallel		$C_{MK} S_{(M-1)K+1}$		\parallel	
	#L/(n \cdot K)			\parallel				\parallel	
				$C_{L/n} S_1$					$C_{L/n+(M-1)K} S_{(M-1)K+1}$
# # K-1 CORRELATOR BLOCK	#0	$C_K S_{K+2}$	$C_{2K} S_{2K+2}$		$C_{(M-1)K} S_{(M-1)K+2}$				
	#1	$C_K S_2$	$C_{2K} S_{K+2}$						
	#L/(n \cdot K)			\parallel					$C_{L/2+(M-1)K} S_{(M-1)K+2}$
	#0	$C_K S_{2K-1}$	$C_{2K} S_{3K-1}$	\parallel	$C_{(M-1)K} S_{MK-1}$				
	#1	$C_K S_{K-1}$	$C_{2K} S_{2K-1}$	\parallel		$C_{MK} S_{MK-1}$			
	#L/(n \cdot K)			\parallel					$C_{L/2+(M-1)K} S_{MK-1}$

FIG. 11

		1	2	....	K
CORRELATOR BLOCK # #0	CORRELATOR #0	$D_0 U_0$	$D_1 U_0$	....	$D_{K-1} U_0$
	CORRELATOR #1	$D_K U_0$	$D_{K+1} U_0$	....	$D_{2K-1} U_0$
	CORRELATOR #2	$D_{2K} U_0$	$D_{2K+1} U_0$	....	$D_{3K-1} U_0$
	:	:	:	:
	CORRELATOR #L/(n·K)	$D_{L/n} U_0$	$D_{L/n+1} U_0$	....	$D_{L/n+K-1} U_0$
CORRELATOR BLOCK # #1	CORRELATOR #0	$D_{-1} U_1$	$D_0 U_1$	....	$D_{K-2} U_1$
	CORRELATOR #1	$D_{K-1} U_1$	$D_K U_1$	....	$D_{2K-2} U_1$
	CORRELATOR #2	$D_{2K-1} U_1$	$D_{2K} U_1$	....	$D_{3K-2} U_1$
	:	:	:	:
	CORRELATOR #L/(n·K)	$D_{L/n-1} U_1$	$D_{L/n} U_1$	....	$D_{L/n+K-2} U_1$
≈ : ≈ : ≈ : ≈					
CORRELATOR BLOCK # #K-1	CORRELATOR #0	$D_{-(K-1)} U_{K-1}$	$D_{-K+2} U_{K-1}$	....	$D_0 U_{K-1}$
	CORRELATOR #1	$D_1 U_{K-1}$	$D_2 U_{K-1}$	....	$D_K U_{K-1}$
	CORRELATOR #2	$D_{K+1} U_{K-1}$	$D_{K+2} U_{K-1}$	....	$D_{2K} U_{K-1}$
	:	:	:	:
	CORRELATOR #L/(n·K)	$D_{L/n-(K-1)} U_{K-1}$	$D_{L/n-K+2} U_{K-1}$	....	$D_{L/n} U_{K-1}$

FIG . 12

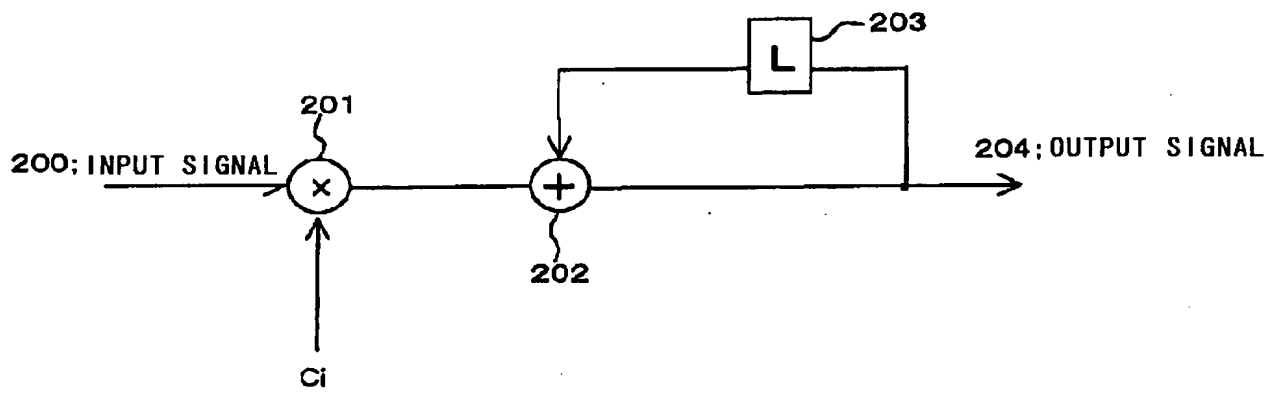


FIG. 13

